

What is claimed is:

1. A device for recording images on a printing form comprising:

5 an array of light sources;

imaging optics for generating $n \times m$ imaging spots on the printing form, n being greater than one and m being greater than or equal to one and n and m being natural numbers;

10 the array of light sources including an array of $r \times s$ VCSEL light sources, at least two of the $r \times s$ VCSEL light sources being controllable independently of one another, r being greater than or equal to n and s being greater than or equal to m , r and s being natural numbers.

15 2. The device as recited in claim 1 wherein the array of $r \times s$ VCSEL light sources includes a subarray of at least two of the VCSEL light source, the printing form having at least one specific imaging spot formed by combining light emitted by the subarray of the $r \times s$ VCSEL light sources.

20 3. The device as recited in claim 1 wherein the array of $r \times s$ VCSEL light sources is constituted in modular form by a plurality of subarrays.

4. The device as recited in claim 1 wherein the printing form has a row of n imaging spots with a distance l between adjacent spots.

25 5. The device as recited in claim 2 wherein the subarray has at least one first and one second VCSEL light source, the first and second VCSEL light sources being controlled so that light emitted by the first VCSEL light source is in a fixed phase relation to light emitted by the second VCSEL light source.

30 6. The device as recited in claim 1 wherein the imaging optics includes at least one component, and the array of VCSEL light sources includes at least one subarray, the at least one component acting on the at least one subarray and being a microoptical component.

7. The device as recited in claim 1 wherein the array of VCSEL light sources has at least one subarray, the subarray having a VCSEL light source provided as a reference emitter for diagnosing parameters relevant to emission.

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8. The device as recited in claim 1 wherein the array of VCSEL light sources has a subarray, the imaging optics for the subarray having a component with a focal position variable as a function of a distance at least one light source of the array of VCSEL light sources to the printing form.

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9. The device as recited in claim 1 wherein the array of VCSEL light sources has at least one first light source having a control, the control, as a function of a power output from the first light source, varying an input power when the power output deviates from a setpoint value.

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10. The device as recited in claim 9 wherein the at least one first light source is a reference emitter of a subarray of the array of VCSEL light sources, the input power being the input power for at least one further light source of the subarray when the power output deviates from a setpoint value.

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11. The device as recited in claim 1 wherein at least one light source of the array of VCSEL light sources generates short pulsed radiation.

12. A printing-form imaging unit comprising:

at least one device for recording images on a printing form as recited in claim 1.

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13. A print unit comprising:

at least one device for recording images on a printing form as recited in claim 1.

14. A printing press, comprising:

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at least one feeder,
a print unit as recited in claim 13, and
a delivery unit.